What is claimed is:

1   1. In a data processing system having a cache, a method for generating uncached objects

2   comprising:

3   (a) locating at least one component that is related to an uncached object; and

4   (b) constructing, by the cache, the uncached object from the located at least

5   one component.

1   2. The method of claim 1 wherein step b further comprises obtaining the located at least

2   one component.

1   3. The method of claim 1 further comprising obtaining the at least one component from

2   the cache and a second component from a storage system.

1   4. The method of claim 1 further comprising obtaining the at least one component and

2   the second components from a storage system.

1   5. The method of claim 1 further comprising deriving the at least one component from

2   an object.

1   6. The method of claim 1 further comprising storing the constructed object in the cache.

1   7. The method of claim 1 further comprising generating, by the cache, a request for the

2   object.

1   8. The method of claim 1 wherein the object is an image file.

1   9. The method of claim 8 wherein the image file is a JPEG-2000 file.

1   10. The method of claim 1 wherein the at least one component is an image file.

1   11. The method of claim 10 wherein the image file is a JPEG-2000 file.

1   12. The method of claim 1 wherein the object is a web page.

1   13. The method of claim 1 wherein the at least one component is a web page.

1   14. The method of claim 1 wherein the object is a document.

1   15. The method of claim 1 wherein the at least one component is a document.

1   16. A cache system comprising:

2   a cache memory storing one or more objects;

3   logic element determining that an object is missing from the memory; and

4   a processor obtaining at least one component related to the missing object and

5   constructing the object in response to the logic element determining that the

6   object is missing from the cache memory.

1   17. The cache system of claim 16 wherein obtaining the at least one component further

2   comprises obtaining the at least one component from an object.

1   18. The cache system of claim 16 wherein the object is an image file.

1   19. The cache system of claim 18 wherein the image file is a JPEG-2000 file.

1   20. The cache system of claim 16 wherein the component is an image file.

1   21. The cache system of claim 20 wherein the image file is a JPEG-2000 file.

1   22. The cache system of claim 16 wherein the object is a web page.

1   23. The cache system of claim 16 wherein the component is a web page.

1   24. The cache system of claim 16 wherein the object is a document.

1   25. The cache system of claim 16 wherein the component is a document.

1   26. The cache system of claim 16 wherein a request is generated by the cache system.

1   27. The cache system of claim 16 wherein the cache system is a server.

1   28. The cache system of claim 27 wherein the request is generated by a client.

1   29. The cache system of claim 16 wherein the logic element determining the requested

2   object is missing from the cache memory:

3   (a)   further determining if the components to construct the requested object are

4   in the cache memory; and

5   (b)   further determining the components missing from the cache memory

6   required from the storage device to construct the object.

1   30. The cache system of claim 29 wherein the cache system is generating the request for

2   an object.

1   31. In an image server having a cache, a method for obtaining an image comprising:

2   (a) obtaining the image from the cache, if the image is present within the

3   cache, otherwise,

4   (b) constructing the image from one or more cached image components, if the

5   cache has one or more cached image components from which the image

6   can be produced, otherwise,

7   (c) determining whether to construct the image using an uncached image

8   component stored in a remote storage.

1   32. The method of claim 31 further comprising constructing the image from the uncached

2   image component stored in remote storage and one or more cached image

3   components, upon determining to construct the image using the uncached image

4   component.

1   33. The method of claim 31 further comprising constructing the image from the remote

2   stored image component upon determining to construct the image using the uncached

3   image component stored in the remote storage.

1   34. The method of claim 31, further comprising obtaining the image from the remote

2   storage if it is determined not to construct the image.

1   35. The method of claim 31 wherein the image is a JPEG 2000 image.

1   36. In an image server having a cache, a method for obtaining an image comprising

2   obtaining the image from the cache, if the image is present within the cache,

3   otherwise constructing the image from image components obtained from one of the

4   cache only, remote storage only, and a combination of the cache and the remote

5   storage.

1   37. The method of claim 36 wherein the image is a compressed image.

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